

## B.Tech Curriculum - Computer Science & Engineering From Academic Year 2018-19

### Semester - I

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical & Theoretical Chemistry/ Organic & Inorganic Chemistry	SCY	2-1-0-3
3.	ID1101	Concepts in Engineering & Design	BET	1-0-2-2
4.	MA1101	Calculus	SMA	3-1-0-4
5.	PH1101	Introduction to Classical Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Lab/Chemistry Lab	SPH/SCY	0-0-3-2
7.	EA1103	Workshop-I	BES	0-0-3-2
8.	HS1101/ HS1103/ HS1105/ HS1107	Language Course (Pass/Fail)	HPF	2-0-0-2
<b>Total</b>				<b>22/21</b>

### Semester - II

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical & Theoretical Chemistry Organic & Inorganic Chemistry	SCY	2-1-0-3
3.	ES1201	Basic Electrical Engineering	BET	3-0-0-3
4.	MA1202	Differential Equations and Matrices	SMA	3-1-0-4
5.	PH1202	Introduction to Electrodynamics and Quantum Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Lab/Chemistry Lab	SPH/SCY	0-0-3-2
7.	EA1202	Workshop-II	BES	0-0-3-2
<b>Total</b>				<b>20/21</b>

### Semester - III

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES2101	Engineering Mechanics	BET	3-1-0-4
2.	ES2103	Ecology and Environment	BET	2-0-0-2
3.	CS/EE21XX	Digital Systems	PMT	3-0-0-3
4.	CS21XX	Discrete Mathematics for Computer Science	PMT	3-0-0-3
5.	CS21XX	Programming Methodology	PMT	2-0-3-4
6.	HSE1	Humanities Elective-1	HSS	3-0-0-3
7.	MA2030	Linear Algebra	SMA	3-0-0-3
8.	CS/EE21XX	Digital Systems Lab	PML	0-0-3-2
<b>Total</b>				<b>24</b>

### Semester - IV

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS22XX	Theory of Computation	PMT	3-0-0-3
2.	CS22XX	Computer Organization	PMT	3-0-0-3
3.	CS22XX	Computer Organization Lab	PML	0-0-3-2
4.	CS22XX	Data Structures and Algorithms	PMT	3-1-0-4
5.	CS22XX	Data Structures and Algorithms Lab	PML	0-0-3-2
6.	BS2101	Life Sciences	SLS	2-0-0-2
7.	MA2XXX	Probability and Statistics	SMA	3-0-0-3
8.	HSE2	Humanities Elective-2	HSS	3-0-0-3
<b>Total</b>				<b>22</b>

**Semester - V**

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS31XX	Design and Analysis of Algorithms	PMT	3-0-0-3
2.	CS31XX	Compiler Design	PMT	3-0-0-3
3.	CS31XX	Compiler Design Lab	PML	0-0-3-2
4.	CS31XX	Software Engineering	PMT	3-0-0-3
5.	CS31XX	Software Engineering Lab	PML	0-0-3-2
6.	CS31XX	Operating Systems	PMT	3-0-0-3
7.	CS31XX	Operating Systems Lab	PML	0-0-3-2
8.	FRE1	Free Elective-1	FRE	3-0-0-3
<b>Total</b>				<b>21</b>

**Semester - VI**

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS32XX	Computer Networks	PMT	3-0-0-3
2.	CS32XX	Computer Networks Lab	PML	0-0-3-2
3.	CS32XX	Artificial Intelligence	PMT	3-1-0-4
4.	CS32XX	Database Systems	PMT	3-1-0-4
5.	HSE3	Humanities Elective-3	HSS	3-0-0-3
6.	FRE2	Free Elective-2	FRE	3-0-0-3
<b>Summer</b>				
7.	CS32XX	Industrial/Research Internship	PIT	--- 2
<b>Total</b>				<b>21</b>

**Semester - VII**

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS41XX	Computer System Design	PMT	3-0-0-3
2.	CS41XX	Computer System Design Lab	PML	0-0-3-2
3.	DPE1	Department Elective-1	PMT	3-0-0-3
4.	DPE2	Department Elective-2	PMT	3-0-0-3
5.	FRE3	Free Elective-3	FRE	3-0-0-3
6.	CS41XX	Artificial Intelligence Lab	PML	0-0-3-2
6.	CS41XX	Project Phase-I	PMP	--- 2
7.	CS41XX	Industrial Lecture	PIL	1-0-0-1
<b>Total</b>				<b>19</b>

**Semester - VIII**

S.No	Course No	Course Name	Category	L-T-P-C
1.	DPE3	Department Elective-3	PMT	3-0-0-3
2.	DPE4	Department Elective-4	PMT	3-0-0-3
3.	CS42XX	Project Phase-II	PMP	--- 7
4.	HS4XXX	Professional Ethics	HPE	2-0-0-2
<b>Total</b>				<b>15</b>

**Total Credits 164**